



# **2002 MICHIGAN FAMILY FISH CONSUMPTION GUIDE**

**Important facts to know if you eat Michigan fish**



**MDCH Environmental & Occupational Epidemiology Division • 1-800-648-6942**

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## Project F.I.S.H

Project F.I.S.H. is a Michigan youth sportfishing education program. It is designed to involve children in long-term, mentor-based, community-supported, sportfishing and aquatic resource education.

Call 517-432-2700 for more information, or visit: [www.projectfish.org](http://www.projectfish.org)

## WHAT WOMEN OF CHILDBEARING AGE SHOULD KNOW ABOUT EATING FISH



### *General Fish Consumption Advice*

**T**he Michigan Department of Community Health advises extra caution about eating Michigan fish for women of childbearing age and children under 15.

Certain kinds and sizes of fish from the Great Lakes and from some of Michigan's lakes and streams contain levels of toxic chemicals that may be harmful if those fish are eaten too often.

The amounts of chemicals found in Michigan fish are not known to cause immediate sickness. But chemicals can collect in the body over time. It may take months or years of regularly eating contaminated fish to build up amounts that are a health concern. Chemicals may eventually affect your health or that of your children. Mothers who eat highly contaminated fish before birth may have children who are slower to develop and learn. A pregnant woman may pass these chemicals to her unborn child and to the new baby through breast milk.

### *What Can I Do to Reduce My Health Risks from Chemicals in Fish?*

- Choose smaller fish. Generally, panfish and fish just over the legal size will have fewer chemicals.
- Choose lean fish. Panfish, brook trout and brown trout that live in streams and rivers tend to be low in fat. Small walleye, northern pike and bass, especially those that are just legal size, also tend to have fewer chemicals. Carp and catfish are higher in fat and usually have more chemicals.
- Choose fish that don't eat other fish. Large predator fish, especially large walleye, northern pike, muskie, bass and lake trout tend to have more chemicals.



**F**or a guide to how often you may eat sport fish and still avoid potential health risks from chemicals, see the charts of specific advisories for the Great Lakes watersheds. The charts start on page 8. They show specific locations, kinds, and sizes of fish, and how often you may eat them.

Trim and cook fish properly to reduce risk. This can remove more than 50 percent of the remaining contaminants in fish. See the separate section on trimming and cooking on page 3.

### ***Advisory on Mercury in Inland Lakes***

**T**he Michigan Department of Community Health has issued a special advisory for all inland lakes in Michigan due to mercury. This is a widespread problem throughout the north central United States and Canada.

**No one should eat more than one meal a week of these kinds and sizes of fish from any of Michigan's inland lakes:**

- Rock bass, perch, or crappie over 9 inches in length
- Any size largemouth bass, smallmouth bass, walleye, northern pike, or muskie

**Women of childbearing age and children under age 15 should not eat more than one meal per month of these fish.**

More than 200 inland bodies of water have been sampled. For specific advice about these lakes, see the summary of mercury in fish from inland lakes on page 6.

### ***Commercial Fish***

**T**he fish you buy from your supermarket can also contain toxic chemicals. There are laws to limit them, but extra caution will help protect unborn and young children.

**Women of child bearing age, particularly those who are pregnant or nursing, and children under 15 should not eat these fish due to mercury levels:**

- Swordfish • Shark • King Mackerel • Tilefish



## **COOKING AND CLEANING FISH**



### ***Trim & Cook Fish Properly To Reduce Risk***

**F**ish are nutritious and good to eat. When properly prepared, fish provide a diet high in protein and low in saturated fats. Many doctors suggest, based on scientific studies, that eating 2-3 fish meals a week is helpful in preventing heart disease.

Proper preparation reduces the concentration of organic chemicals like PCB even further. By trimming fatty areas before cooking and by cooking fish in ways that allow fat to drip away, more than 50 percent of the contaminants in fish can be eliminated. Methyl mercury is stored in fish flesh. Special trimming and cooking methods do not remove it.

#### ***DO***

Trim fatty areas before cooking (see drawing). The belly, the top of the back, and the dark meat along the skin side of the fillet are often fatty.

Remove or puncture skin before cooking. This allows fats to drain off and helps remove or reduce fat under the skin.

Cook so fat drips away. Bake, broil or grill on a rack, or poach and do not use the liquid.

Deep-fry trimmed fillets in vegetable oil. After frying, drain and throw away the oil.

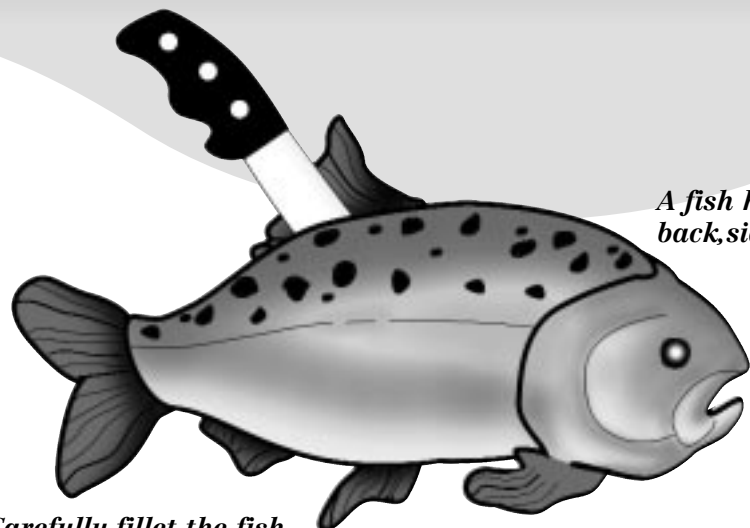
#### ***DON'T***

Pan-fry in butter or animal fat, and don't make fish soups or chowders. These methods hold in juices that contain fat from the fish.



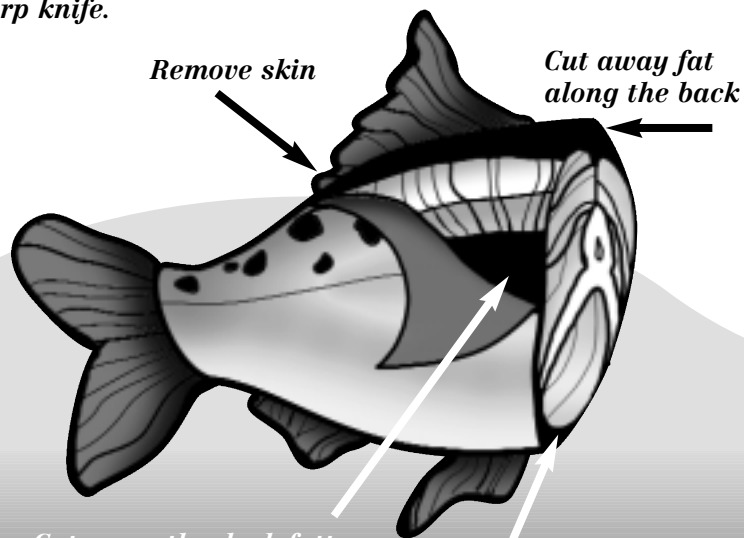
# COOKING AND CLEANING FISH

*Important reminders.*



*A fish has fat on its back, sides and belly.*

*Carefully fillet the fish with a long sharp knife.*



*Cut away the dark fatty tissue along the side of the fillet*

*Trim off the belly fat*

# CHARTS OF SPECIFIC ADVISORIES

*How to Use the Charts – Four Easy Steps*

## Step One:

In the first column, find the body of water in which you are fishing. The charts are divided into separate listings for each Great Lakes watershed. Within these sections, the Great Lake is listed first, then bays on the lake that have additional advisories, followed by an alphabetical listing of rivers that flow into the lake and inland lakes, reservoirs or impoundments in the watershed.

## Step Two:

In the second column, find the kind of fish that you have caught.

## Step Three:

Read across the top of the chart to the appropriate category and find the size range of the fish you have caught. The General Population category is for men, boys over the age of 15 and women who are beyond childbearing years. The Women & Children category is for women of childbearing age and children under 15.

## Step Four:

Follow the size column down to the line for the species that you found in the previous steps. The symbol on the chart represents the consumption advice, according to the following key:

- ▲ Unlimited consumption. Eat as much of these fish as you wish.
- ▼ One meal per week.
- One meal per month.
- Six meals per year.
- ◆ Do not eat these fish.

## ***General Advice***

**If you are fishing in a river or stream that is not listed, keep in mind the following facts:**

- Larger and older fish tend to collect more contaminants.
- Fish that eat other fish, such as muskie, northern pike, walleye and bass, tend to collect chemicals such as mercury.
- Fatty fish, such as carp, catfish, lake trout and large salmon, tend to collect PCBs and similar chemicals.
- For salmon and trout on their spawning run into streams, follow the advice for the Great Lake from which they are migrating.

## ***Mercury in fish***

Mercury is found in nature. It is also released by burning wastes and coal, and improper disposal of mercury containing products such as thermometers, batteries, and older thermostats. Small amounts can dissolve in water. Bacteria can change it into a more toxic form called methyl mercury.

Fish pick it up as they feed and absorb it from water as it passes over their gills. Larger predator fish accumulate more as they eat other fish. Methyl mercury is stored in fish flesh. Special trimming and cooking methods do not remove it.

Nearly all fish contain very small amounts of methyl mercury. Usually only large fish that eat other fish have levels too high for humans to eat.

## ***Mercury in Michigan Sport Fish***

In addition to Great Lakes advisories, these charts represent results of testing for mercury in fish from about 200 inland lakes in Michigan. Only a few kinds of fish were tested in each lake. The charts show only the mercury in the fish that were tested. Other fish in the same lake will probably have similar levels. Large fish such as bass and walleye may have higher levels. Panfish such as bluegill and sunfish may have lower levels. You can also get a copy of the full tables that show species and sizes tested in each lake. Contact the Michigan Department of Community Health Environmental & Occupational Epidemiology Division at 1-800-648-6942.



## ***General Inland Lake Mercury Advisory***

For lakes not in these lists, follow this general advisory. Even in the lakes tested that did not have fish consumption advisories due to mercury it is wise to limit meals of large fish.

- No one should eat more than one meal a week of rock bass, yellow perch, or crappie over nine inches in length and bass, walleye, northern pike or muskellunge of any size.
- Women of childbearing age and children under 15 should not eat more than one meal per month of these fish.

## ***Spacing Meals of Sport Fish***

**It's important to leave enough space between meals of sport fish so you reduce the risks of chemicals in fish.**

- If you eat fish that contain mercury, wait until the consumption period is over before having another meal of fish in the same category. For example, if you eat a fish that has a consumption advisory of one meal a month because of mercury contamination, don't eat any more fish that contain mercury for another month.
- It's different with fish that contain other chemicals such as PCBs. You can eat more meals of these fish over a shorter period of time as long as you don't go over the total number of meals you could have in a year. If most of the fish you eat are in the one-meal-a-week category, you could have a total of 52 meals a year. If most of the fish you eat are in the one-meal-a-month group, you could have 12 meals a year. Eating one meal of fish from the one-meal-a-month group is the same as eating four meals of fish from the one-meal-a-week group. If you eat most of your meals of sport fish in four or five months over the summer fishing season, that's okay — but don't eat more than the total number of meals you may have in a year.

## ***Need More Information?***

For further information or for the most up-to-date advice, contact the MDCH Environmental & Occupational Epidemiology Division at 1-800-648-6942. This advisory was updated in January, 2002. Determining safe levels of fish consumption is an ongoing process of scientific analysis. Updates may be issued as the Michigan Department of Community Health gets new information.



- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

			General Population									Women & Children								
			Length (inches)									Length (inches)								
Water body	Species	Contaminant(s)	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
<b>Lake Erie Watershed</b> All other locations refer to general advice on page 6.																				
<b>Lake Erie #</b>	Carp, Catfish	PCBs, Dioxins	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲			●	●	●	●	●	●	●
	Coho Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲			●	●	●	●	●	●	●
	Freshwater Drum	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼
	Lake Trout	PCBs			▲	▲	▲	▲	▲	▲	▲			■	■	■	■	■	■	■
	Rainbow Trout (Including Steelhead)	PCBs			▲	▲	▲	▲	▲	▲	▲			●	●	●	●	●	●	●
	Smallmouth Bass	PCBs					▲	▲	▲	▲						●	●	●	●	
	Walleye	PCBs				▲	▲	▲	▲	▲	▲				▼	▼	▼	●	●	●
	White Bass	PCBs	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●			
	Whitefish	PCBs, Dioxins	▼	▼	▼	▼	▼	▼	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	White Perch	PCBs	▲	▲	▲	▲						●	●	●	●					
	Yellow Perch	PCBs	▲	▲	▲	▲	▲					▼	▼	▼	▼	▼				
<b>Barton Pond*</b> (Huron R.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼
<b>Belleville Lake*</b> (Huron R.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	■	■
	Gizzard Shad	PCBs	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●			
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	●	●	●	●
	White Suckers	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●	
<b>Black Creek</b> (Lenawee Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●	●
<b>Black River</b> (Sanilac Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼
<b>Cass Lake*</b> (Oakland Co.)	Smallmouth Bass	Mercury, PCBs					▼	▼	▼	▼						●	●	●	●	
	Walleye	Mercury, PCBs					▼	▼	▼	▼	▼					●	●	●	●	●
<b>Clear Spring Lake*</b> (Macomb Co.)	Largemouth Bass	Mercury, PCBs					▲	▼	▼	▼						▼	●	●	●	

# Also applies to tributaries into which migratory species enter.

\* For species not listed, see general inland lake mercury advisory on page 6.

An empty box in the chart means one of two things:

- On the small end of the size scale, fish in this size range are not of legal size.
- On the large end of the size scale, fish of this type generally do not grow to this size.

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

<div>▲ Unlimited consumption.</div> <div>● One meal per month.</div>			<div>▼ One meal per week.</div> <div>■ Six meals per year.</div> <div>◆ Do not eat these fish.</div>			General Population								Women & Children								
			Length (inches)								Length (inches)											
			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	
Lake Erie Watershed All other locations refer to general advice on page 6.																						
Clinton River (Below Yates Dam)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	■	■	■	■	
	Rock Bass	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼					
	White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	
Detroit River	Carp	PCBs, Dioxin	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Freshwater Drum	Mercury, PCBs	▲	▲	▲	▲	▼	▼	▼	▼	▼		●	●	●	●	●	●	●	●	●	
	Northern Pike	PCBs							▲	▲	▲							●	●	●		
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲			●	●	●	●	■	■	■	■		
	Walleye	Mercury, PCBs				▲	▲	▲	▼	▼	▼					●	●	●	●	●	●	
	Yellow Perch	PCBs	▲	▲	▲	▲	▲							▼	▼	▼	▼	▼				
Ford Lake* (Washtenaw Co.)	Black Crappie	PCBs	▲	▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼				
	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●	
	Channel Catfish	PCBs				▲	▲	▲	▲	▲	▲					▼	▼	●	●	●	●	
	Walleye	PCBs					▲	▲	▲	▲	▲						▼	▼	▼	▼	▼	
Hudson Lake* (Lenawee Co.)	Carp	Mercury	▲	▲	▲	▲	▲	▲	▲	▼	▼		▲	▲	▲	▲	▲	▲	▲	●	●	
	Largemouth Bass	Mercury					▲	▼	▼	▼						▲	●	●	●			
Kent Lake* (Oakland Co.)	Black Crappie	Mercury, PCBs	▲	▼	▼	▼	▼	▼					▼	●	●	●	●	●				
	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●	
	Largemouth and Smallmouth Bass	PCBs					▲	▲	▲	▲						▼	▼	▼	▼			
	Walleye	Mercury, PCBs					▼	▼	▼	▼	▼						●	●	●	●	●	
Lake Orion* (Oakland Co.)	Largemouth Bass	Mercury, PCBs					▼	▼	▼	▼							●	●	●	●		
	Northern Pike	Mercury, PCBs							▼	▼	▼							●	●	●		

\* For species not listed, see general inland lake mercury advisory on page 6.

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			General Population									Women & Children									
			Length (inches)									Length (inches)									
Water body	Species	Contaminant(s)	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Erie Watershed All other locations refer to general advice on page 6.																					
Lake St. Clair	Bluegill	PCBs	▲	▲	▲	▲							▼	▼	▼	▼					
	Brown Bullhead	Mercury	▲	▲	▲	▲	▼						▲	▲	▲	▲	●				
	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲	▼	●	●	●
	Carp sucker	Mercury	▲	▲	▲	▲	▲	▼	▼	▼	▼		▲	▲	▲	▲	▲	●	●	●	●
	Channel Catfish	PCBs				▲	▲	▲	▼	▼	▼					▼	▼	■	◆	◆	◆
	Largemouth and Smallmouth Bass	Mercury, PCBs					▼	▼	▼	▼							●	●	●	●	
	Northern Pike	Mercury							▲	▼	▼								▲	●	●
	Muskellunge	Mercury									◆										◆
	Sturgeon	PCBs									▲										●
	Walleye	Mercury, PCBs				▲	▲	▲	▼	▼	▼					▼	▼	●	●	●	●
	White Bass	Mercury, PCBs	▲	▲	▲	▼	▼	▼					●	●	●	●	●	●			
	White Perch	Mercury	▲	▲	▼	▼							▲	▲	●	●					
Loon Lake* (Oakland Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼
	Largemouth and Smallmouth Bass	Mercury					▲	▼	▼	▼						▲	●	●	●		
Maceday Lake* (Oakland Co.)	Northern Pike	Mercury, PCBs							▼	▼	▼								●	●	●
Osmun Lake* (Oakland Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	■	■
	Largemouth Bass	PCBs, Mercury					▼	▼	▼	▼						●	●	●	●		
Ottawa River	All species	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆
Pine River (St. Clair Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲	▼	▼	▼	▼
Pontiac Lake* (Oakland Co.)	Channel Catfish	Mercury, PCBs				▲	▲	▲	▼	▼	▼					▼	▼	▼	●	●	●
River Raisin (Above Monroe Dam)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●

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▲	Unlimited consumption.	▼	One meal per week.									General Population								Women & Children							
●	One meal per month.	■	Six meals per year.									Length (inches)								Length (inches)							
		◆	Do not eat these fish.									6-88-1010-1212-1414-1818-2222-2626-3030 +								6-88-1010-1212-1414-1818-2222-2626-3030 +							
Water body		Species	Contaminant(s)																								
Lake Erie Watershed All other locations refer to general advice on page 6.																											
River Raisin, (Below Monroe Dam) and Plum Creek	Black Buffalo	PCBs	▲	▲	▲	▲	◆	◆	◆	◆	◆		■	■	■	■	◆	◆	◆	◆	◆						
	Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆						
	Channel Catfish	PCBs				◆	◆	◆	◆	◆	◆					◆	◆	◆	◆	◆	◆						
	Freshwater Drum	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●						
	Smallmouth Bass	PCBs					▼	▼	▼	▼						■	■	■	■								
	White Bass	PCBs	▲	▲	▼	◆	◆	◆					■	■	■	◆	◆	◆									
River Raisin, South Branch	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●						
	Northern Pike	PCBs							▲	▲	▲							●	●	●							
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲			▼	▼	▼	●	●	●	●	●							
Rouge River (Main or Upper Branch above M-153/Ford Road)	White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼						
Rouge River (Phoenix Reservoir)	Bluegill	PCBs	▲	▲	▲	▲							▼	▼	▼	▼											
	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●						
Rouge River (Middle Branch below Phoenix Lake and Main Branch below M-153/Ford Road)	Carp, Catfish	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆						
	Largemouth and Smallmouth Bass	PCBs					◆	◆	◆	◆						◆	◆	◆	◆								
	Northern Pike	PCBs							◆	◆	◆							◆	◆	◆							
	White Suckers	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	■	■	■	■	■						
	All other species	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆						
Rouge River Lower Branch	Carp, Suckers	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆						
Terry Lake* (Oakland Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	●	●	●	●						
St. Clair River	Carp	Mercury, PCBs	▲	▲	▲	▲	▲	▲	▼	▼	◆		▲	▲	▲	▼	●	●	■	◆	◆						
	Freshwater Drum	Mercury, PCBs	▲	▲	▲	▲	▼	▼	▼	▼	▼		▲	▲	▲	▲	●	●	●	●	●						
	Gizzard Shad	Mercury, PCBs	▲	▲	▼	▼	▼	▼					▼	●	◆	◆	◆	◆									
	Walleye	PCBs				▲	▲	▲	▲	▲	▲					●	●	●	●	●	●						

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.	General Population								Women & Children										
●	One meal per month.	■	Six meals per year.	Length (inches)								Length (inches)										
		◆	Do not eat these fish.	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Erie Watershed All other locations refer to general advice on page 6.																						
Stony Creek Impoundment* (Macomb Co.)		Northern Pike	Mercury, PCBs							▼	▼	▼								●	●	●
Unnamed Lake* (Washtenaw Co., T3S, R7E, S26)		Bullhead	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼				
		Largemouth Bass	Mercury, PCBs					▼	▼	▼	▼							●	●	●	●	
Walled Lake* (Oakland Co.)		Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	●	●	●
		Northern Pike	Mercury, PCBs							▼	▼	▼								●	●	●
Whitmore Lake* (Livingston Co.)		Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▼	▼	▼
Woodland Lake* (Livingston Co.)		Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▼	▼
		Largemouth Bass	Mercury					▲	▼	▼	▼						▲	●	●	●		
All Inland lakes, reservoirs, and impoundments (mercury advisory)		Crappie	Mercury	▲	▼	▼	▼	▼	▼					▲	●	●	●	●	●			
		Largemouth and Smallmouth Bass	Mercury					▼	▼	▼	▼							●	●	●	●	
		Muskellunge	Mercury										▼									●
		Northern Pike	Mercury							▼	▼	▼								●	●	●
		Rock Bass	Mercury	▲	▼	▼	▼	▼						▲	●	●	●	●				
		Walleye	Mercury					▼	▼	▼	▼	▼						●	●	●	●	●
		Yellow Perch	Mercury	▲	▼	▼	▼	▼							▲	●	●	●	●			

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.	General Population								Women & Children											
●	One meal per month.	■	Six meals per year.	Length (inches)								Length (inches)											
		◆	Do not eat these fish.	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	
Lake Huron Watershed All other locations refer to general advice on page 6.																							
Lake Huron #	Brown Trout	PCBs			▲	▲	▲	▼	▼	▼	▼					●	●	●	◆	◆	◆	◆	
	Burbot	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●	
	Coho Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●	
	Lake Trout	PCBs, Chlordane, Dioxins			▼	▼	▼	▼	◆	◆	◆	◆				◆	◆	◆	◆	◆	◆	◆	
	Rainbow Trout (Including Steelhead)	PCBs, Dioxins			▲	▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●	
	Whitefish	PCBs, Dioxins	▲	▲	▲	▲	▲	▼	◆	◆	◆	◆	▼	▼	▼	▼	▼	▼	◆	◆	◆	◆	
Saginaw Bay # (Also follow Lake Huron advisories above)	Carp	PCBs, Dioxins	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Channel Catfish	PCBs, Dioxins				▼	▼	◆	◆	◆	◆	◆					◆	◆	◆	◆	◆	◆	
	Northern Pike	PCBs							▲	▲	▲	▲							▼	●	●	●	
	Walleye	Mercury, PCBs					▲	▲	▼	▼	▼	▼					▼	●	●	●	●	●	
	White Bass	PCBs	▼	▼	▼	▼	▼	▼					■	■	■	■	■	■					
	White Perch	PCBs	▲	▲	▲	▲							●	●	●	●							
	White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	●	●	●	●	●	●	
	Yellow Perch	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼						
Thunder Bay # (Also follow Lake Huron advisories above)	Carp	PCBs, Dioxins	▼	▼	▼	▼	▼	◆	◆	◆	◆	◆	●	●	●	●	●	◆	◆	◆	◆	◆	
	Walleye	PCBs					▲	▲	▲	▲	▲	▲					▼	▼	●	●	●	●	
Au Sable River (At Oscoda)	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Walleye	Mercury, PCBs					▲	▲	▲	▼	▼	▼					▼	●	●	●	●	●	
Au Sable River (Middle Branch)	Walleye	Mercury					▼	▼	▼	▼	▼	▼					●	●	●	●	●	●	
Bad River	Channel Catfish	PCBs				▼	▼	▼	▼	▼	▼	▼					●	●	■	◆	◆	◆	
	Northern Pike	PCBs								▲	▲	▲								▼	▼	▼	
Caro Impoundment* (Cass River)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	

# Also applies to tributaries into which migratory species enter.

\* For species not listed, see general inland lake mercury advisory on page 6. 19

- ▲ Unlimited consumption. ▼ One meal per week.  
● One meal per month. ■ Six meals per year.  
◆ Do not eat these fish.

<div>▲ Unlimited consumption.</div> <div>● One meal per month.</div>			<div>▼ One meal per week.</div> <div>■ Six meals per year.</div> <div>◆ Do not eat these fish.</div>			General Population								Women & Children									
			Length (inches)								Length (inches)												
			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +				6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Huron Watershed All other locations refer to general advice on page 6.																							
Cass River (Below Bridgeport)	Carp	Dioxins	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Channel Catfish	PCBs, Mercury Dioxins				◆	◆	◆	◆	◆	◆					◆	◆	◆	◆	◆	◆	◆	
	Northern Pike	PCBs							▲	▲	▲								▼	●	●	●	
Cass River (Above Bridgeport)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●	●	●
	Northern Pike	Mercury							▲	▼	▼								▲	●	●	●	
Cheboyganing Creek	Carp	PCBs	▲	▲	▲	▲	▲	▼	◆	◆	◆		▼	▼	▼	●	●	■	◆	◆	◆	◆	
	Northern Pike	PCBs							▲	▲	▲									●	●	●	
Chippewa River (Midland Co.)	Redhorse Suckers	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Flint River (Below Flint)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	◆		●	●	●	●	●	●	●	●	●	●	◆
	Smallmouth Bass	PCBs					▲	▲	▲	▲						▼	▼	▼	▼				
Holloway Reservoir* (Genessee Co.)	Channel Catfish	PCBs				▲	▲	▲	▲	▲	▲					●	●	●	●	●	●	●	
Kawkawlin River	Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Northern Pike	PCBs							▲	▲	▲									●	●	●	
Kearsley Reservoir* (Genesee County)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	●	●	
	Largemouth Bass	Mercury					▲	▼	▼	▼						▲	●	●	●	●			
Pine River* (Alma Impoundment)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	●	●	
Pine River* (Downstream of Alma dam)	All Species	PBBs, DDT	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
Lake Ponemah* (Genesee Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	●	●	●	
	Largemouth Bass	Mercury					▲	▼	▼	▼						▲	●	●	●				
Rifle River	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲			▼	▼	▼	▼	▼	▼	▼	▼	▼		
	Rock Bass	PCBs	▲	▲	▲	▲	▲						▲	▼	▼	▼	▼						
Saginaw River (Entire Length)	Carp, Catfish	PCBs, Dioxins	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	White Bass	PCBs	▼	▼	▼	▼	▼	▼					■	■	■	■	■	■					
	All other species	PCBs, Dioxins	▼	▼	▼	▼	▼	▼	▼	▼	▼		●	●	●	●	●	●	●	●	●	●	

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

<div>▲ Unlimited consumption.</div> <div>● One meal per month.</div>			<div>▼ One meal per week.</div> <div>■ Six meals per year.</div> <div>◆ Do not eat these fish.</div>			General Population								Women & Children																			
			Length (inches)								Length (inches)																						
			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +									6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +					
Lake Huron Watershed All other locations refer to general advice on page 6.																																	
Sanford Lake* (Midland Co.)			Black Crappie				▲	▲	▲	▲	▲	▲										▲	▲	▲	▲	▲	▲						
			Channel Catfish		Mercury, PCBs						▲	▲	▲	▲	▼	▼										▼	▼	▼	▼	●	●		
			Rock Bass				▲	▲	▲	▲	▲													▲	▲	▲	▲	▲					
St. Mary’s River			Carp		PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲						●	●	●	●	●	●	●	●	●	●		
			Northern Pike		PCBs									▲	▲	▲												▲	▼	▼			
			Walleye		Mercury, PCBs							▲	▲	▼	▼	▼											▼	▼	●	●	●		
Sebawaing River			Carp		PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲						▼	▼	▼	▼	●	●	●	●	●	●	●		
			Northern Pike		PCBs									▲	▲	▲											▼	▼	▼				
Shiawassee River (Below Owosso)			Carp		PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼	▼	▼	●	●	●			
			Rock Bass		PCBs		▲	▲	▲	▲	▲											▼	▼	▼	▼	▼							
			Smallmouth Bass		PCBs							▲	▲	▲	▲										▼	▼	▼	▼					
Shiawassee River (Byron to Owosso)			Carp		PCBs		◆	◆	◆	◆	◆	◆	◆	◆	◆						◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
			Northern Pike		PCBs									▲	▲	▲												●	●	■			
			Smallmouth Bass		PCBs							▲	▲	▲	▲												●	●	●	●			
Shiawassee River S. Br. (M-59 to Byron)			All species		PCBs		◆	◆	◆	◆	◆	◆	◆	◆	◆						◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
Tawas River			Northern Pike		PCBs									▲	▲	▲											▼	▼	▼				
Thompson Lake* (Livingston Co.)			Black Crappie		Mercury, PCBs		▲	▼	▼	▼	▼	▼									●	●	●	●	●	●							
			Carp		PCBs		▲	▲	▲	▲	▲	▼	◆	◆	◆							▼	▼	▼	●	●	■	◆	◆	◆			
Thread Creek and Thread Creek Impoundment (Genesee Co.)			Carp		PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲						●	●	●	●	●	●	●	●	●	●	●		
Tittabawassee River (Below Midland)			Carp, Catfish		PCBs, Dioxins		◆	◆	◆	◆	◆	◆	◆	◆	◆						◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
			Smallmouth Bass		PCBs, Dioxins							▼	▼	▼	▼												◆	◆	◆	◆			
			White Bass		PCBs, Dioxins		◆	◆	◆	◆	◆	◆											◆	◆	◆	◆	◆	◆					
			All other species		PCBs, Dioxins		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼							●	●	●	●	●	●	●	●	●	●	●

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.	General Population								Women & Children															
●	One meal per month.	■	Six meals per year.	Length (inches)								Length (inches)															
		◆	Do not eat these fish.	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +					
Water body				Species		Contaminant(s)																					
Lake Huron Watershed				All other locations refer to general advice on page 6.																							
Tobico Wetland* (Bay Co.)				Carp	PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲				
				Northern Pike	PCBs									▲	▲	▲							▲	▼	▼		
Van Etten Lake* (Iosco Co.)				Carp	PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲				
				Channel Catfish	PCBs						▲	▲	▲	▲	▲	▲				●	■	■	■	■	■		
				Walleye	Mercury, PCBs							▼	▼	▼	▼	▼					●	●	●	●	●	●	
*All Inland lakes, reservoirs, and impoundments (mercury advisory)				Crappie	Mercury		▲	▼	▼	▼	▼	▼						▲	●	●	●	●	●				
				Largemouth and Smallmouth Bass	Mercury							▼	▼	▼	▼						●	●	●	●			
				Muskellunge	Mercury											▼										●	
				Northern Pike	Mercury									▼	▼	▼							●	●	●		
				Rock Bass	Mercury		▲	▼	▼	▼	▼							▲	●	●	●	●					
				Walleye	Mercury							▼	▼	▼	▼	▼					●	●	●	●	●		
				Yellow Perch	Mercury		▲	▼	▼	▼	▼							▲	●	●	●	●					






\* For species not listed, see general inland lake mercury advisory on page 6.

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                                          ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.									General Population								Women & Children									
●	One meal per month.	■	Six meals per year.									Length (inches)								Length (inches)									
		◆	Do not eat these fish.									6-88-1010-1212-1414-1818-2222-2626-3030 +								6-88-1010-1212-1414-1818-2222-2626-3030 +									
Water body		Species	Contaminant(s)																										
Lake Michigan Watershed																				All other locations refer to general advice on page 6.									
Lake Michigan North of Frankfort #	Brown Trout	PCBs			▲	▲	▲	▲	◆	◆	◆				●	●	●	●	◆	◆	◆								
	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	◆	◆			■	■	■	■	■	■	◆	◆								
	Catfish	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	◆	◆	◆	◆	◆	◆	◆								
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	■	■								
	Coho Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	■								
	Lake Trout	PCBs, Chlordane			▲	▲	▲	▲	▲	◆	◆				●	●	●	●	■	◆	◆								
	Rainbow Trout (Including Steelhead)	PCBs			▲	▲	▲	▲	▲	▲	▲				▼	▼	▼	●	●	●	●								
	Smelt	PCBs	▲	▲	▲	▲								▼	▼	▼	▼												
	Sturgeon	PCBs										◆									◆								
	Walleye	Mercury, PCBs					▲	▲	▼	▼	▼						▼	●	●	■	■								
	Whitefish	PCBs, Dioxin	▼	▼	▼	▼	◆	◆	◆	◆	◆			◆	◆	◆	◆	◆	◆	◆	◆								
	Yellow Perch	PCBs	▲	▲	▲	▲	▲							▼	▼	▼	▼	▼											
Lake Michigan South of Frankfort #	Brown Trout	PCBs			▲	▲	▲	▲	◆	◆	◆				●	●	●	●	◆	◆	◆								
	Carp, Catfish	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	◆	◆	◆	◆	◆	◆	◆								
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	■	■								
	Coho Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	■								
	Lake Trout	PCBs, Chlordane			▲	▲	▲	▼	◆	◆	◆				●	●	●	●	◆	◆	◆								
	Rainbow Trout (Including Steelhead)	PCBs			▲	▲	▲	▲	▲	▲	▲				▼	▼	▼	●	●	●	●								
	Smelt	PCBs	▲	▲	▲	▲								▼	▼	▼	▼												
	Sturgeon	PCBs, Chlordane DDT, Dioxin										◆									◆								
	Walleye	Mercury, PCBs					▲	▲	▼	▼	▼						▼	●	●	■	■								
	Whitefish	PCBs, Chlordane Dioxin	▲	▲	▲	▲	▲	▲	◆	◆	◆			●	●	●	●	●	◆	◆	◆								
	Yellow Perch	PCBs	▲	▲	▲	▲	▲							▲	▼	▼	▼	▼											

# Also applies to tributaries into which migratory species enter

- ▲ Unlimited consumption.      ▼ One meal per week.  
 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

	Unlimited consumption.		One meal per week.
	One meal per month.		Six meals per year.
			Do not eat these fish.

			General Population									Women & Children										
			Length (inches)									Length (inches)										
Water body	Species	Contaminant(s)	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	
Lake Michigan Watershed    All other locations refer to general advice on page 6.																						
Green Bay # <small>(S. of Cedar River. Applies to Michigan waters including Menominee and Cedar rivers below first dam. See also Lake Michigan-North of Frankfort)</small>	Brown Trout	PCBs			▼	▼	▼	◆	◆	◆	◆				●	●	■	◆	◆	◆	◆	
	Burbot	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	●	●	
	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	◆	◆		■	■	■	■	■	■	■	◆	◆	
	Channel Catfish	PCBs				▼	▼	▼	▼	▼	▼					■	■	■	■	■	■	
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●	
	Lake Trout	PCBs			▲	▲	▲	▲	▼	▼	▼				●	●	●	●	●	■	■	
	Longnose Sucker	PCBs	▼	▼	▼	▼	▼	▼	▼				■	■	■	■	■	■	■			
	Northern Pike	PCBs							▲	▲	▲								●	●	●	
	Rainbow Trout (Including Steelhead)	PCBs			▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●	
	Smallmouth Bass	Mercury, PCBs					▲	▼	▼	▼							●	●	●	●		
	Splake	PCBs			▼	▼	▼	◆	◆	◆	◆				●	●	■	◆	◆	◆	◆	
	Sturgeon	PCBs										◆									◆	
	Walleye	Mercury, PCBs					▲	▼	▼	◆	◆						●	■	■	◆	◆	
	White Bass	PCBs	◆	◆	◆	◆	◆	◆					◆	◆	◆	◆	◆	◆				
	Whitefish	PCBs, Dioxins	▼	▼	▼	▼	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	
	White Perch	PCBs	◆	◆	◆	◆							◆	◆	◆	◆						
White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●		
Yellow Perch	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼						
Little Bay de Noc # <small>(See also Lake Michigan North of Frankfort)</small>	Burbot	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	●	●	
	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	◆	◆		■	■	■	■	■	■	■	◆	◆	
	Longnose Sucker	PCBs	▼	▼	▼	▼	▼	▼	▼				●	●	●	●	■	◆	◆			
	Northern Pike	PCBs							▲	▲	▲								●	●	■	
	Smallmouth Bass	Mercury, PCBs					▲	▼	▼	▼							●	●	●	●		
	White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●	
Barton Lake* <small>(Kalamazoo Co.)</small>	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▼	▼	▼	▼	▼		

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\* For species not listed, see general inland lake mercury advisory on page 6.



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●	One meal per month.	■	Six meals per year.									Length (inches)								Length (inches)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		◆	Do not eat these fish.									6-88-1010-1212-1414-1818-2222-2626-3030 +								6-88-1010-1212-1414-1818-2222-2626-3030 +																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Water body				Species		Contaminant(s)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Battle Creek River				Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲</

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- ▲ Unlimited consumption.    ▼ One meal per week.  
 ● One meal per month.      ■ Six meals per year.  
                                         ◆ Do not eat these fish.

<div>▲ Unlimited consumption.</div> <div>● One meal per month.</div>			<div>▼ One meal per week.</div> <div>■ Six meals per year.</div> <div>◆ Do not eat these fish.</div>			General Population								Women & Children							
			Length (inches)								Length (inches)										
			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Michigan Watershed All other locations refer to general advice on page 6.																					
Goose Lake* (Marquette Co.)	Northern Pike	PCBs							▲	▲	▲								●	●	●
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	
	Yellow Perch	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼				
Grand River (Above Webber Dam)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●	●	
	Channel Catfish	PCBs				▲	▲	▲	▲	▲	▲				▼	▼	●	●	●	●	
	Northern Pike	PCBs							▲	▲	▲						▼	▼	▼		
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●		
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	
Grand River (Below Webber Dam)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●	●	
	Channel Catfish	PCBs				▲	▲	▲	▲	▲	▲				▼	▼	●	●	●	●	
	Northern Pike	PCBs							▲	▲	▲						▼	▼	▼		
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●		
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	●	●	●	●	
Greenwood Reservoir* (Escanaba River, Marquette Co.)	Northern Pike	Mercury							▼	▼	◆							●	●	◆	
Gull Lake* (Kalamazoo Co.)	Northern Pike	Mercury, PCBs							▲	▼	▼							▼	●	●	
Hess Lake* (Newago Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	
Higgins Lake* (Roscommon Co.)	Lake Trout	Mercury, PCBs, Chlordane			▲	▲	▲	▲	▲	▲	◆			●	●	●	●	●	●	◆	
Houghton Lake*(Roscommon Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	
Kalamazoo River (Ceresco Impoundment, Calhoun Co.)	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼	
Kalamazoo River (From Battle Creek to Morrow Pond Dam)	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼	●	●	●	●	●	●	●	●	●	

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 ● One meal per month.        ■ Six meals per year.  
                                          ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.											General Population										Women & Children									
●	One meal per month.	■	Six meals per year.											Length (inches)										Length (inches)									
		◆	Do not eat these fish.											6-88-1010-1212-1414-1818-2222-2626-3030 +										6-88-1010-1212-1414-1818-2222-2626-3030 +									
Water body				Species		Contaminant(s)																											
Lake Michigan Watershed				All other locations refer to general advice on page 6.																													
Kalamazoo River (From Morrow Dam to Allegan Dam) and	Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆											
	Catfish, Suckers	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆											
	Largemouth and Smallmouth Bass	PCBs PCBs					◆	◆	◆	◆						◆	◆	◆	◆														
	All other species	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆											
Kalamazoo River (Below Allegan Dam)	Carp, Catfish	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆											
	Largemouth and Smallmouth Bass	PCBs					▼	▼	▼	▼						◆	◆	◆	◆														
	Northern Pike	PCBs							◆	◆	◆							◆	◆	◆													
	All other species	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		●	●	●	●	●	●	●	●	●											
Lake Charlevoix*(Charlevoix Co.)	Brown Trout	PCBs			▲	▲	▲	▲	▼	▼	▼				●	●	●	●	■	■	■												
	Lake Trout	PCBs			▲	▲	▲	▲	▲	▲	▲	▲				●	●	●	●	●	●	●											
Lake Macatawa*(Ottawa Co.)	Carp	PCBs, Chlordane	▲	▲	▲	▲	▲	▼	◆	◆	◆		▼	▼	▼	▼	●	●	◆	◆	◆												
	Walleye	PCBs					▲	▲	▲	▲	▲						●	●	●	●	●												
Manistee Lake*(Manistee Co.)	Black Crappie	Mercury, PCBs	▲	▼	▼	▼	▼	▼					▼	●	●	●	●	●															
	Bluegill	PCBs	▲	▲	▲	▲							▼	▼	▼	▼																	
	Largemouth and Smallmouth Bass	Mercury, PCBs					▼	▼	▼	▼							●	●	●	●													
	Walleye	Mercury, PCBs					▼	▼	▼	▼	▼						●	●	●	●	●												
Manistique River (Below M-94/ Old U.S. 2)	Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆											
	Channel Catfish	PCBs				▲	▲	▲	▲	▲	▲	▲					●	●	■	■	■	■											
Manistique River (Upstream from dam at Manistique)	Northern Pike	Mercury							▼	▼	▼								●	●	●												

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.    ▼ One meal per week.  
 ● One meal per month.    ■ Six meals per year.  
 ◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.									General Population								Women & Children																
●	One meal per month.	■	Six meals per year.									Length (inches)								Length (inches)																
		◆	Do not eat these fish.																																	
Water body			Species		Contaminant(s)		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +											
Lake Michigan Watershed																											All other locations refer to general advice on page 6.									
Menominee River (Below Quinnesec, Dickinson Co.)			Carp	Mercury, PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼		●	●	●	●	●	●	●	●	●	■										
			Redhorse Sucker	Mercury, PCBs	▲	▲	▲	▲	▼	▼	▼	▼	▼					▲	▲	▲	▲	●	●	●	●											
			Sturgeon	Mercury													▼										●									
			Walleye	Mercury, PCBs					▲	▼	▼	▼	▼									▲	●	●	●	●	●									
			White Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼								
Michigamme River System* (Including Lake Michigamme, Michigamme Reservoir, Peavy Pond, and Paint River Pond)			Burbot	Mercury	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼			▲	▲	▲	▲	▲	▲	●	●	●	●										
			Northern Pike	Mercury								▼	▼	▼	▼									●	●	●	●									
			Walleye	Mercury					▼	▼	▼	▼	▼	▼	▼							●	●	●	●	●	●									
			White Sucker	Mercury	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼			▲	▲	▲	▲	▲	●	●	●	●	●	●								
Mona Lake* (Muskegon Co.)			Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆										
			Smallmouth Bass	PCBs					▲	▲	▲	▲										●	●	●	●											
			Walleye	PCBs					▲	▲	▲	▲	▲								▼	●	●	●	●	●	●									
Morrison Lake* (Ionia Co.)			Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲			▲	▲	▲	▲	▲	▲	▲	▲	▼	●	●										
			Largemouth Bass					▲	▲	▲	▲										▲	▲	▲	▲												
Muskegon Lake* (Muskegon Co.)			Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▼	◆			●	●	●	●	●	●	●	●	◆	◆	◆										
			Largemouth Bass	Mercury, PCBs					▼	▼	▼	▼										●	●	●	●											
			Northern Pike	PCBs							▲	▲	▲	▲										▼	●	●	●									
			Walleye	Mercury, PCBs					▲	▼	▼	▼	▼									●	●	■	■	■	■									
Muskegon River (Below Croton Dam)			Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▼	◆			●	●	●	●	●	●	●	●	◆	◆	◆										
			Redhorse Sucker	Mercury, PCBs	▲	▲	▲	▲	▲	▼	▼	▼	▼					▲	▲	▲	▲	▲	●	●	●											
			Walleye	PCBs					▲	▲	▲	▲	▲									▼	●	●	■	■	■									
Net River (Iron Co.)			Northern Pike	Mercury							▼	▼	▼									●	●	●	●											
			Walleye	Mercury					▼	▼	▼	▼	▼									●	●	●	●	●	●									

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption. ▼ One meal per week.  
● One meal per month. ■ Six meals per year.  
◆ Do not eat these fish.

<div>▲ Unlimited consumption.</div> <div>● One meal per month.</div>			<div>▼ One meal per week.</div> <div>■ Six meals per year.</div> <div>◆ Do not eat these fish.</div>			General Population								Women & Children										
			Length (inches)								Length (inches)													
			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +				6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	
Lake Michigan Watershed All other locations refer to general advice on page 6.																								
Pere Marquette Lake* <small>(Mason Co.)</small>	Northern Pike	Mercury, PCBs							▼	▼	▼										●	●	●	
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲			●	●	●	●	●	●	●	●	●	●		
Pere Marquette River	Brown Trout	Mercury, PCBs		▲	▲	▲	▼	▼	▼	▼	▼			▼	▼	▼	▼	●	●	●	●	●	●	
	Redhorse Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲			●	●	●	●	●	●	●	●	●	●		
Portage Creek <small>(Below Monarch Mill Pond, Kalamazoo Co.)</small>	Carp	PCBs	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Channel Catfish	PCBs				◆	◆	◆	◆	◆	◆					◆	◆	◆	◆	◆	◆	◆		
	Largemouth Bass	PCBs					◆	◆	◆	◆						◆	◆	◆	◆					
	Smallmouth Bass	PCBs					◆	◆	◆	◆						◆	◆	◆	◆					
	All other species	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
Portage Lake* <small>(Manistee Co.)</small>	Largemouth and Smallmouth Bass	Mercury, PCBs					▼	▼	▼	▼							●	●	●	●				
	Northern Pike	Mercury, PCBs							▼	▼	▼									●	●	●		
Randall Lake Chain* <small>(Branch Co.)</small>	Northern Pike	Mercury, PCBs							▼	▼	▼									●	●	●		
Red Cedar River	Carp	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	●	●	●	●		
	Northern Pike	PCBs							▲	▲	▲									▲	▼	▼		
Reed's Lake* <small>(Kent Co.)</small>	Largemouth Bass	PCBs					▲	▲	▲	▲						▼	▼	▼	▼					
	Northern Pike	PCBs							▲	▲	▲								▼	▼	▼			
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼			
Round Lake* <small>(Marquette Co.)</small>	Northern Pike	Mercury							◆	◆	◆									◆	◆	◆		
Selkirk Lake* <small>(Allegan Co.)</small>	Yellow Bullhead	Mercury	▲	▲	▼	▼	▼						▲	▲	●	●	●							
St. Joseph River <small>(Below Berrien Springs)</small>	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
	Smallmouth Bass	PCBs					▲	▲	▲	▲						●	●	●	●					
	Walleye	PCBs					▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼			
St. Joseph River <small>(Including Chapin Lake*, above Berrien Springs, Berrien Co.)</small>	Carp	PCBs	▼	▼	▼	▼	▼	▼	▼	▼	▼		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
	Smallmouth Bass	PCBs					▲	▲	▲	▲						●	●	●	●					

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption. ▼ One meal per week.  
● One meal per month. ■ Six meals per year.  
◆ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.
●	One meal per month.	■	Six meals per year.
		◆	Do not eat these fish.

General Population											Women & Children												
Length (inches)											Length (inches)												
6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +			6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +				
Lake Michigan Watershed All other locations refer to general advice on page 6.																							
St. Joseph River		Walleye	PCBs						▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	
Torch Lake* (Antrim Co.)		Brown Trout	PCBs				▲	▲	▲	▲	▲	▲	▲				▼	▼	▼	●	●	●	●
		Lake Trout	Mercury, PCBs, Chlordane				▲	▲	▲	▲	▼	◆	◆				▼	▼	●	●	●	◆	◆
		Lake Whitefish	PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	●	●	●	●		
		Smallmouth Bass	Mercury, PCBs						▼	▼	▼	▼					●	●	●	●			
Union Lake* (St. Joseph R., Branch Co.)		Carp, Catfish	PCBs		▲	▲	▲	▲	▲	▲	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼		
Unnamed Lake* (Baraga Co., T49N, R31W, S35)		Nothern Pike	Mercury								◆	◆	◆					◆	◆	◆			
		Walleye	Mercury						▼	▼	◆	◆	◆				●	●	◆	◆	◆		
		Yellow Perch	Mercury		▲	▼	◆	◆	◆						▲	●	◆	◆	◆				
Walloon Lake* (Charlevoix Co.)		Rock Bass	Mercury		▲	▲	▲	▲	▲						▲	▲	▲	▲	▲				
		Yellow Perch	Mercury		▲	▲	▲	▲	▲						▲	▲	▲	▲	▲				
West Branch Lakes, SE and SW* (Alger Co., T48N, R14W, S31)		Northern Pike	Mercury								◆	◆	◆					◆	◆	◆			
		Walleye	Mercury						▼	▼	◆	◆					●	●	◆	◆			
		Yellow Perch	Mercury		▲	▼	◆	◆	◆						▲	●	◆	◆	◆				
White Lake (Muskegon Co.)		Carp	PCBs, Chlordane		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆			
		Smallmouth Bass	Mercury, PCBs						▼	▼	▼	▼					●	●	●	●			
		Walleye	Mercury, PCBs						▲	▲	▲	▼	▼				▼	●	●	●	●		
*All inland lakes, reservoirs, and impoundments (mercury advisory)		Crappie	Mercury		▲	▼	▼	▼	▼	▼					▲	●	●	●	●				
		Largemouth and Smallmouth Bass	Mercury						▼	▼	▼	▼					●	●	●	●			
		Muskellunge	Mercury											▼							●		
		Northern Pike	Mercury								▼	▼	▼					●	●	●			
		Rock Bass	Mercury		▲	▼	▼	▼	▼						▲	●	●	●	●				
		Walleye	Mercury						▼	▼	▼	▼	▼					●	●	●	●	●	
		Yellow Perch	Mercury		▲	▼	▼	▼	▼						▲	●	●	●	●				

\* For species not listed, see general inland lake mercury advisory on page 6.

- ▲ Unlimited consumption.    ▼ One meal per week.  
 ● One meal per month.    ■ Six meals per year.  
     ♦ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.	General Population								Women & Children										
●	One meal per month.	■	Six meals per year.	Length (inches)								Length (inches)										
		◆	Do not eat these fish.	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Superior Watershed    All other locations refer to general advice on page 6.																						
Lake Superior #	Brown Trout	PCBs			▲	▲	▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼	▼
	Chinook Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲					●	●	●	●	●	●	●
	Ciscowet	Mercury, Chlordane PCBs, Dioxin			▲	▲	▲	◆	◆	◆	◆					●	●	●	◆	◆	◆	◆
	Coho Salmon	PCBs			▲	▲	▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼	▼
	Lake Herring	PCBs	▲	▲	▲	▲	▲						▼	▼	▼	▼	▼					
	Lake Trout	PCBs, Chlordane			▲	▲	▲	▼	▼	▼	◆				▼	▼	▼	◆	◆	◆	◆	◆
	Longnose Sucker	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
	Whitefish	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Au Train Lake* (AlgerCo.)	Northern Pike	Mercury							▲	▲	▼								▲	▲	●	
Boston Pond* (Houghton Co.)	Yellow Perch	Mercury	▲	▲	▲	▲	▲						▲	▲	▲	▲	▲					
Carp River (Downstream of Deer Lake, Marquette Co.)	Brook Trout	Mercury	▲	▲	▲	▲	▲	▲	▲	▲			▲	▲	▲	▲	▲	▲	▲	▲		
	Northern Pike	Mercury							▼	▼	▼								●	●	●	
	All other species	Mercury	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Carp Creek (Upstream of Deer Lake, Marquette Co.)	Brook Trout	Mercury	▲	▲	▲	▲	▲	▲	▲	▲			▲	▲	▲	▲	▲	▲	▲	▲		
	All other species	Mercury	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Chaney Lake* (Gogebic Co.)	Northern Pike	Mercury							▼	◆	◆									●	◆	◆
	Yellow Perch	Mercury	▲	▲	▲	▲	▲						▲	▲	▲	▲	▲					
Cisco Lake Chain* (Gogebic Co.)	Walleye						▲	▲	▲	▲	▲						▲	▲	▲	▲	▲	▲
Deer Lake (Marquette Co.)	All species	Mercury	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Duck Lake* (Gogebic Co.)	Walleye	Mercury					▲	▼	▼	▼	▼						▲	●	●	●	●	●
Lake Independence* (Marquette Co.)	Northern Pike	Mercury							▲	▲	▼									▲	▲	●
Langford Lake* (Gogebic Co.)	Walleye	Mercury					▲	▲	◆	◆	◆						▲	▲	◆	◆	◆	◆
Pomeroy Lake* (Gogebic Co.)	Walleye	Mercury					▲	▼	▼	▼	▼						▲	●	●	●	●	●

\* For species not listed, see general inland lake mercury advisory on page 6.  
 # Also applies to tributaries into which migratory species enter.

- ▲ Unlimited consumption.    ▼ One meal per week.  
 ● One meal per month.    ■ Six meals per year.  
     ♦ Do not eat these fish.

▲	Unlimited consumption.	▼	One meal per week.	General Population								Women & Children										
●	One meal per month.	■	Six meals per year.	Length (inches)								Length (inches)										
		◆	Do not eat these fish.	6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		6-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Superior Watershed    All other locations refer to general advice on page 6.																						
Portage Lake* (Houghton Co.)	Brown Trout	PCBs			▲	▲	▲	▲	▲	▲	▲					▲	▲	▼	▼	●	●	●
	Walleye	Mercury, PCBs					▲	▲	▼	▼	▼						▲	▲	●	●	●	
Siskiwit Lake* (Isle Royale)	Lake Trout	PCBs			▲	▲	▲	▲	▲	▲	▲					▼	▼	▼	▼	▼	▼	▼
	Lake Whitefish	PCBs	▲	▲	▲	▲	▲	▲	▲	▲	▲		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Thousand Island Lake* (Gogebic Co.)	Walleye	Mercury					▲	▼	▼	▼	▼						▲	●	●	●	●	
Torch Lake* (Houghton Co.)	Northern Pike	Mercury, PCBs							▲	▲	▼								▼	▼	●	
	Smallmouth Bass	Mercury, PCBs					▲	▼	▼	▼							▼	●	●	●		
	Walleye	Mercury, PCBs					▲	▲	▼	▼	▼						▼	▼	●	●	●	
*All inland lakes, reservoirs, and impoundments (mercury advisory)	Crappie	Mercury	▲	▼	▼	▼	▼	▼					▲	●	●	●	●	●				
	Largemouth and Smallmouth Bass	Mercury					▼	▼	▼	▼							●	●	●	●		
	Muskellunge	Mercury										▼									●	
	Northern Pike	Mercury							▼	▼	▼								●	●	●	
	Rock Bass	Mercury	▲	▼	▼	▼	▼						▲	●	●	●	●					
	Walleye	Mercury					▼	▼	▼	▼	▼						●	●	●	●	●	
	Yellow Perch	Mercury	▲	▼	▼	▼	▼						▲	●	●	●	●					

# Also applies to tributaries into which migratory species enter.

\* For species not listed, see general inland lake mercury advisory on page 6.

A. When multiple contaminants are listed, each chemical was analyzed separately for the appropriate advisory and the most protective advisory selected.

Updated January 2002. Advisory updates may be issued at any time upon receipt of significant new findings or changes in advisory criteria. For further information or the most up-to-date advice contact the **Michigan Department of Community Health Environmental & Occupational Epidemiology Division** at 1-800-648-6942.





*Michigan Department  
of Community Health*



John Engler, Governor

James K. Haveman, Jr., Director

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